ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · UNIT B

Forces — Practice Test

Ontario Physics, Grade 11, University Preparation (SPH3U) • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **An object is pulled with 20 newtons east and pushed with 15 newtons west. What is the size of the net force in newtons?**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Inertia is**

A a force

B the same as weight

C the tendency of an object to resist a change in motion, related to its mass

D only present in moving objects

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3 **A larger mass has**

A less inertia

B no inertia

C inertia only when moving

D more inertia

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4 **When a car brakes suddenly, passengers continue forward because of**

A inertia

B a forward force from the brakes

C friction with the seat only

D gravity

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5 **Static friction is friction between surfaces that are**

- A sliding past each other
- B not moving relative to each other
- C in a liquid only
- D not in contact

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6 **Kinetic friction is friction between surfaces that are**

- A at rest
- B separated by air
- C sliding past each other
- D not in contact

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7 **On an inclined plane, the component of weight parallel to the plane**

- **A** is always zero
- **B** pushes the object up the plane
- **C** is perpendicular to the plane
- **D** pulls the object down the plane

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8 **The gravitational force between two objects increases when**

- **A** their masses increase or their separation decreases
- **B** their masses decrease
- **C** their separation increases
- **D** they move apart only

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9

A spring scale measures

A mass only

B force, including weight

C volume

D density

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10

A balance measures

A weight

B force

C mass, by comparing with known masses

D density

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ANSWER KEY

1. 5
2. C
3. D
4. A
5. B
6. C
7. D
8. A
9. B
10. C

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